

MEBS6006 Environmental Services I

<http://www.hku.hk/bse/MEBS6006/>

Summary of Teaching (Dr. Sam C. M. Hui)

<p>1. Introduction</p> <p>1.1 Course Background</p> <p>1.2 What is Environmental Services</p> <p>1.3 Air Conditioning</p> <p>2. Advanced Psychrometry</p> <p>2.1 Review of Basic Psychrometry</p> <p>2.2 Practical Applications of Psychrometry</p> <p>2.3 Techniques of Psychrometric Analysis</p> <p>3. Thermal Comfort</p> <p>3.1 What is Thermal Comfort?</p> <p>3.2 Thermal Environment and Heat Balance</p> <p>3.3 Comfort Equation and Prediction</p> <p>3.4 Influencing Factors</p> <p>3.5 Environmental Indices</p> <p>3.6 Local Thermal Discomfort</p> <p>3.7 Thermal Comfort Measurements</p> <p>3.8 Thermal Comfort Software Tool (from ASHRAE/UC Berkeley)</p>	<p>4. Load Estimation</p> <p>4.1 Basic Concepts</p> <p>4.2 Outdoor Design Conditions</p> <p>4.3 Indoor Design Conditions</p> <p>4.4 Cooling Load Components</p> <p>4.5 Cooling Load Principles</p> <p>4.6 Cooling Coil Load</p> <p>4.7 Heating Load</p> <p>5. Energy Calculations</p> <p>5.1 Objectives between load calculation vs energy calculation</p> <p>5.2 Calculation Methodology</p> <p>5.3 Energy Calculation Methods</p> <p>5.4 Building Energy Simulation</p>
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Concept Map:

